



National Council of Examiners for Engineering and Surveying  
Principles and Practice of Engineering Examination  
ABET - Accredited Programs

200710  
2/15/2008

Graduate of	<b>Engineering</b>				
Subject Matter Report by Major and PM Examination					
Board:	Kentucky	Institution:	Kentucky_ University of		
Board Code:	71	School Code:	7101		
Major:	<b>Agricultural</b>	PM Exam:	<b>Civil-Water Resources</b>		
	*Institution	National	Comparator Groupings		

	1	39	34	0	5		
Examinees Taking	1	28	23	0	5		
Examinees Passing	100	72	68	0	100		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
Breadth - Environmental	8	88	76	1.1	75	0	78
Breadth - Geotechnical	8	88	63	1.9	63	0	60
Breadth - Structural	8	50	76	1.4	75	0	83
Breadth - Transportation	8	62	63	1.7	61	0	75
Breadth - Water Resources	8	75	72	1.6	72	0	75
Hydraulics	15	67	67	2.1	67	0	72
Hydrology	5	100	74	1.0	74	0	76
Water Treatment	6	67	59	1.3	59	0	60
Environmental	10	80	60	1.7	61	0	56
Geotechnical	4	100	69	1.0	71	0	55

\* 0 examinees have been removed from this data because they (1) Answered fewer than 10% of the questions or (2) were flagged as a Random Guesser.

\*\* The standard deviation above is based on number of questions correct not percentage of questions correct.

\*\*\* Carnegie 1 - Research Extensive, Carnegie 2 - Research Intensive, Carnegie 3 - Masters I and II combined

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Subject Matter Report by Major and PM Examination						
Board:	Kentucky	Institution:	Kentucky_ University of			
Board Code:	71	School Code:	7101			
Major:	<b>Agricultural</b>	PM Exam:	<b>Mechanical-HVAC</b>			
	*Institution	National			Comparator Groupings	

	1	3	2	0	1		
Examinees Taking	1	3	2	0	1		
Examinees Passing	1	2	2	0	0		
Examinees Passing %	100	67	100	0	0		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
General - Codes & Standards - Engineering Principle 6	100	78	1.2	83	0	67	
General - Codes & Standards - Fundamental Enginee 5	100	80	1.0	90	0	60	
General - Codes & Standards - Interpretation of Code 1	100	67	0.6	100	0	0	
Machine Design & Materials - Principles	4	50	42	0.6	50	0	25
Machine Design & Materials - Applications	3	33	55	1.2	66	0	33
Hydraulics & Fluids - Principles	4	75	83	0.6	75	0	100
Hydraulics & Fluids - Applications	3	100	78	0.6	84	0	67
Energy Conversion/Power Systems - Principles	5	80	53	1.5	70	0	20
Energy Conversion/Power Systems - Analysis of Sys 2	50	33	0.6	25	0	50	
HVAC & Refrigeration - Principles	7	100	72	2.6	93	0	29
Fundamentals - Psychrometrics	5	100	87	1.2	100	0	60
Fundamentals - Principles	9	78	74	1.5	84	0	56
Equipment and Materials	15	67	71	2.1	77	0	60
Applications - Systems	8	100	83	1.5	94	0	62
Applications - Supportive Knowledges	3	100	78	1.2	100	0	33

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Board:	Kentucky	Institution:	Kentucky_ University of			
Board Code:	71	School Code:	7101			
Major:	<b>Agricultural</b>	PM Exam:	<b>Mechanical-Machine Design</b>			
	*Institution	National			Comparator Groupings	

Examinees Taking	1	2	1	1	0		
Examinees Passing	1	1	1	0	0		
Examinees Passing %	100	50	100	0	0		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
General - Codes & Standards - Engineering Principle 6	100	83	1.4	100	67	0	
General - Codes & Standards - Fundamental Enginee 5	100	90	0.7	100	80	0	
General - Codes & Standards - Interpretation of Code 1	100	100	0.0	100	100	0	
Machine Design & Materials - Principles	4	100	75	1.4	100	50	0
Machine Design & Materials - Applications	3	100	66	1.4	100	33	0
Hydraulics & Fluids - Principles	4	75	75	0.0	75	75	0
Hydraulics & Fluids - Applications	3	100	66	1.4	100	33	0
Energy Conversion/Power Systems - Principles	5	60	40	1.4	60	20	0
Energy Conversion/Power Systems - Analysis of Sys 2	100	50	1.4	100	0	0	
HVAC & Refrigeration - Principles	7	43	57	1.4	43	71	0
Engineering Principles	18	50	39	2.8	50	28	0
Machine Design - Components	14	71	60	2.1	71	50	0
Applications - Systems	3	67	67	0.0	67	67	0
Applications - Supportive Knowledge	5	60	60	0.0	60	60	0

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Board:	Kentucky	Institution:	Kentucky_ University of			
Board Code:	71	School Code:	7101			
Major:	<b>Biological-(not Bio-Medi</b>	PM Exam:	<b>Civil-Transportation</b>			
	*Institution	National	Comparator Groupings			

Examinees Taking	1	2	2	0	0		
Examinees Passing	1	1	1	0	0		
Examinees Passing %	100	50	50	0	0		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
Breadth - Environmental	8	75	56	2.1	56	0	0
Breadth - Geotechnical	8	62	62	0.0	62	0	0
Breadth - Structural	8	62	62	0.0	62	0	0
Breadth - Transportation	8	50	56	0.7	56	0	0
Breadth - Water Resources	8	75	68	0.7	68	0	0
Traffic Analysis	9	89	84	0.7	84	0	0
Transportation Planning/Construction	8	75	62	1.4	62	0	0
Geometric Design/Traffic Safety	9	89	89	0.0	89	0	0
Geotechnical	6	83	50	2.8	50	0	0
Water Resources	8	75	62	1.4	62	0	0

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Board Code:	71	School Code:	7101		
Major:	<b>Biological-(not Bio-Medi</b>	PM Exam:	<b>Civil-Water Resources</b>		
	*Institution	National	Comparator Groupings		

Examinees Taking	1	22	21	0	1		
Examinees Passing	1	13	13	0	0		
Examinees Passing %	100	59	62	0	0		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
Breadth - Environmental	8	88	73	1.7	73	0	62
Breadth - Geotechnical	8	38	57	1.3	58	0	50
Breadth - Structural	8	62	66	1.7	66	0	62
Breadth - Transportation	8	62	60	1.4	61	0	38
Breadth - Water Resources	8	75	67	1.2	67	0	62
Hydraulics	15	67	60	2.2	60	0	53
Hydrology	5	80	68	1.3	69	0	60
Water Treatment	6	33	54	1.6	53	0	67
Environmental	10	90	62	1.9	61	0	80
Geotechnical	4	75	65	0.9	67	0	25

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\*\*\* Carnegie 1 - Research Extensive, Carnegie 2 - Research Intensive, Carnegie 3 - Masters I and II combined

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Board:	Kentucky	Institution:	Kentucky_ University of				
Board Code:	71	School Code:	7101				
Major:	<b>Chemical</b>	PM Exam:	<b>Control Systems</b>				
	*Institution	National			Comparator Groupings		

Examinees Taking	1	27	22	2	2		
Examinees Passing	1	22	19	2	0		
Examinees Passing %	100	81	86	100	0		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
Measurement	19	84	75	2.4	78	76	55
Signals & Transmission	10	80	63	1.5	64	70	60
Final Control Elements	16	69	61	1.9	64	50	41
Control Systems Analysis	13	85	82	1.3	81	88	81
Control Systems Implementation	16	81	68	2.2	69	72	59
Codes, Standards & Regulations	6	83	85	1.0	87	84	58

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Board Code:	71	School Code:	7101				
Major:	<b>Chemical</b>	PM Exam:	<b>Environmental</b>				
	*Institution	National			Comparator Groupings		

Examinees Taking	2		71		32	13	22
Examinees Passing	2		48		24	11	10
Examinees Passing %	100		68		75	85	45
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
Wastewater	11	82	57	1.9	61	56	51
Storm Water	7	78	62	1.4	68	64	51
Potable Water	10	75	62	1.7	65	63	57
Water Resources	6	83	61	1.4	67	59	52
Ambient Air	8	94	72	1.6	74	75	65
Emissions Sources	4	62	58	0.9	60	62	50
Control Strategies	8	88	63	1.7	66	69	51
Municipal Solid Waste (MSW), Commercial, and Ind.	9	56	51	1.6	55	58	41
Hazardous Waste, Special, and Radioactive Waste	11	86	66	1.9	72	70	55
Environmental Assessments	8	62	52	1.5	54	54	48
Remediation	8	69	71	1.5	77	69	62
Public Health and Safety	10	80	65	1.9	67	70	58

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Board:	Kentucky	Institution:	Kentucky_ University of			
Board Code:	71	School Code:	7101			
Major:	<b>Civil</b>	PM Exam:	<b>Civil-Geotechnical</b>			
	*Institution	National			Comparator Groupings	

Examinees Taking	8		776		341	95	252
Examinees Passing	5		388		225	46	84
Examinees Passing %	62		50		66	48	33
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
Breadth - Environmental	8	66	61	1.6	63	61	57
Breadth - Geotechnical	8	72	72	1.6	76	70	68
Breadth - Structural	8	75	78	1.4	81	81	75
Breadth - Transportation	8	75	62	1.7	67	58	59
Breadth - Water Resources	8	61	60	1.7	65	62	53
Subsurface Exploration & Sampling	4	69	56	1.0	61	57	51
Engineering Properties & Soil Mechanics	10	42	40	1.9	46	38	35
Foundations	6	56	49	1.5	56	51	40
Earth Retaining Structures & Seismic Engineering	6	44	43	1.6	50	42	35
Environmental	4	47	43	1.1	51	41	36
Structural	8	62	66	1.6	70	66	61
Transportation	2	88	58	0.7	71	53	46

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Board Code:	71	School Code:	7101			
Major:	<b>Civil</b>	PM Exam:	<b>Civil-Structural</b>			
	*Institution	National		Comparator Groupings		

Examinees Taking	8	651	389	87	145		
Examinees Passing	3	387	271	46	56		
Examinees Passing %	38	59	70	53	39		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
Breadth - Environmental	8	59	67	1.6	69	65	65
Breadth - Geotechnical	8	62	69	1.7	73	66	61
Breadth - Structural	8	86	88	1.1	90	87	85
Breadth - Transportation	8	61	67	1.6	70	63	61
Breadth - Water Resources	8	50	63	1.6	66	61	57
Loading/Analysis	7	77	61	1.4	64	58	56
Mechanics of Materials/Materials	9	59	60	1.9	63	56	53
Member Design	6	46	59	1.4	63	53	54
Failure Analysis/Design Criteria	4	66	54	1.0	58	51	44
Geotechnical	10	45	57	2.2	60	54	49
Transportation	4	56	59	1.1	61	57	55

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Board Code:	71	School Code:	7101			
Major:	<b>Civil</b>	PM Exam:	<b>Civil-Transportation</b>			
	*Institution	National		Comparator Groupings		

Examinees Taking	28	2,032		1,122	346	470	
Examinees Passing	14	900		567	141	154	
Examinees Passing %	50	44		51	41	33	
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
Breadth - Environmental	8	62	64	1.6	66	62	60
Breadth - Geotechnical	8	60	62	1.7	64	59	57
Breadth - Structural	8	72	72	1.5	74	72	71
Breadth - Transportation	8	67	67	1.5	69	66	64
Breadth - Water Resources	8	58	61	1.5	63	61	58
Traffic Analysis	9	80	73	1.5	76	72	69
Transportation Planning/Construction	8	78	72	1.4	75	71	68
Geometric Design/Traffic Safety	9	75	72	1.7	74	70	66
Geotechnical	6	62	61	1.4	63	60	56
Water Resources	8	48	50	1.5	51	47	48

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Board Code:	71	School Code:	7101			
Major:	<b>Civil</b>	PM Exam:	<b>Civil-Water Resources</b>			
	*Institution	National	Comparator Groupings			

	11	1,587	835	241	421		
Examinees Taking	5	866	522	123	165		
Examinees Passing	45	55	63	51	39		
Examinees Passing %	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
Breadth - Environmental	8	61	68	1.5	70	67	64
Breadth - Geotechnical	8	65	63	1.7	65	61	59
Breadth - Structural	8	69	73	1.5	75	71	70
Breadth - Transportation	8	62	62	1.6	64	59	59
Breadth - Water Resources	8	71	66	1.5	68	67	61
Hydraulics	15	60	59	2.7	62	59	53
Hydrology	5	65	66	1.1	68	66	60
Water Treatment	6	56	49	1.4	52	50	43
Environmental	10	56	52	2.0	55	51	47
Geotechnical	4	57	61	1.1	64	62	56

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2/15/2008

Graduate of	<b>Engineering</b>						
Subject Matter Report by Major and PM Examination							
Board:	Kentucky	Institution:	Kentucky_ University of				
Board Code:	71	School Code:	7101				
Major:	<b>Civil</b>	PM Exam:	<b>Structural I</b>				
	*Institution	National			Comparator Groupings		

	1	299	211	43	26		
Examinees Taking	1	299	211	43	26		
Examinees Passing	0	114	79	16	11		
Examinees Passing %	0	38	37	37	42		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
Analysis of Structures-Loads	6	17	60	1.2	59	60	60
Analysis of Structures-Lateral Forces	6	67	60	1.2	59	58	63
Analysis of Structures-Lateral Force Distribution	9	33	54	2.0	53	58	53
Analysis of Structures-Methods	4	100	72	0.8	70	77	72
Design and Details of Structures-General Structural C 6	6	67	67	1.3	67	65	63
Design and Details of Structures-Steel (AISC-AASHT 14	43	43	66	2.2	65	69	69
Design and Details of Structures-Concrete (AASHTO 13	38	38	72	2.2	72	72	67
Design and Details of Structures-Wood (NDS-ASD) 7	14	14	44	1.3	44	45	40
Design and Details of Structures-Masonry (ACI 530-L 7	43	43	53	1.5	55	51	49
Design and Details of Structures-Foundations & Reta 8	50	50	63	1.8	62	65	67

\* 0 examinees have been removed from this data because they (1) Answered fewer than 10% of the questions or (2) were flagged as a Random Guesser.

\*\* The standard deviation above is based on number of questions correct not percentage of questions correct.

\*\*\* Carnegie 1 - Research Extensive, Carnegie 2 - Research Intensive, Carnegie 3 - Masters I and II combined

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National Council of Examiners for Engineering and Surveying  
Principles and Practice of Engineering Examination  
ABET - Accredited Programs

200710  
2/15/2008

Graduate of	<b>Engineering</b>				
Subject Matter Report by Major and PM Examination					
Board:	Kentucky	Institution:	Kentucky_ University of		
Board Code:	71	School Code:	7101		
Major:	<b>Electrical</b>	PM Exam:	<b>Electrical &amp; Computer-Computer</b>		
	*Institution	National	Comparator Groupings		

Examinees Taking	2	71	32	9	23		
Examinees Passing	2	47	26	6	10		
Examinees Passing %	100	66	81	67	43		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
Basic ELE - Professionalism and Engineering Econor	2	75	65	0.6	64	61	63
Basic ELE - Safety & Reliability	3	67	66	0.8	75	67	55
Basic ELE - Electric Circuits	10	60	57	2.3	63	57	51
Basic ELE - Electric & Magnetic Field Theory & Appli	1	50	41	0.5	47	44	30
Basic ELE - Computer Systems & Engr	2	100	88	0.5	92	83	83
Electronics, Circuits & Components - Components	6	83	60	1.5	66	54	55
Electronics, Circuits & Components - Materials	2	25	42	0.8	48	22	41
Controls & Communications Systems	6	67	62	1.5	66	57	56
Power - Transmission & Distribution	5	60	48	1.2	50	49	43
Power - Rotating Machines & Elecromagnetic Device	3	34	42	1.0	45	29	39
General EE Knowledge - Interpret of Codes & Stand	2	25	39	0.7	45	33	30
General EE Knowledge - Microprocessor Systems	2	50	51	0.8	58	56	43
Hardware - Digital Electronics	6	50	59	1.5	62	57	55
Hardware - Design Analysis	7	64	60	1.5	65	64	53
Hardware - Systems	5	50	59	1.3	63	60	55
Software - System Software	5	50	43	1.0	42	44	40
Software - Development/Applications	9	50	54	1.8	58	53	49
Networks	4	62	53	1.0	55	58	51

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\*\*\* Carnegie 1 - Research Extensive, Carnegie 2 - Research Intensive, Carnegie 3 - Masters I and II combined

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National Council of Examiners for Engineering and Surveying  
Principles and Practice of Engineering Examination  
ABET - Accredited Programs

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2/15/2008

Graduate of	<b>Engineering</b>				
Subject Matter Report by Major and PM Examination					
Board:	Kentucky	Institution:	Kentucky_ University of		
Board Code:	71	School Code:	7101		
Major:	<b>Electrical</b>	PM Exam:	<b>Electrical &amp; Computer-ECC</b>		
	*Institution	National		Comparator Groupings	

	1	119	57	18	28		
Examinees Taking	1	119	57	18	28		
Examinees Passing	1	81	48	12	13		
Examinees Passing %	100	68	84	67	46		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
Basic ELE - Professionalism and Engineering Econor	2	100	62	0.7	66	68	55
Basic ELE - Safety & Reliability	3	67	64	0.9	67	79	59
Basic ELE - Electric Circuits	10	100	62	2.3	65	63	53
Basic ELE - Electric & Magnetic Field Theory & Appli	1	100	49	0.5	61	58	21
Basic ELE - Computer Systems & Engr	2	100	89	0.5	90	92	88
Electronics, Circuits & Components - Components	6	100	64	1.4	69	62	58
Electronics, Circuits & Components - Materials	2	100	52	0.8	57	55	50
Controls & Communications Systems	6	83	67	1.4	74	71	58
Power - Transmission & Distribution	5	40	50	1.2	55	54	42
Power - Rotating Machines & Elecromagnetic Device	3	67	46	1.0	54	40	34
General EE Knowledge - Measurement & Instrument:	2	100	63	0.7	67	74	54
General EE Knowledge - Interpret of Codes & Standæ	1	100	57	0.5	61	79	39
General EE Knowledge - Computer Systems	1	100	51	0.5	58	47	39
Electronics - Electric Circuit Theory	4	75	39	1.0	42	39	35
Electronics - Electric & Magnetic Field Theory & Appl	3	0	40	1.0	47	44	32
Electronics - Components & Circuits	7	57	45	1.5	49	47	34
Control System Fundamentals	5	60	46	1.2	49	51	38
Control System Design/Implementation	1	100	42	0.5	46	42	36
Controls - Stability	4	100	52	1.0	55	50	46
Communications & Signal Processing	6	50	46	1.1	48	47	40
Communications - Noise & Interference	3	67	45	0.9	48	53	39
Telecommunications	3	67	36	0.8	37	49	31

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\*\*\* Carnegie 1 - Research Extensive, Carnegie 2 - Research Intensive, Carnegie 3 - Masters I and II combined

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Principles and Practice of Engineering Examination  
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Graduate of	<b>Engineering</b>				
Subject Matter Report by Major and PM Examination					
Board:	Kentucky	Institution:	Kentucky_ University of		
Board Code:	71	School Code:	7101		
Major:	<b>Electrical</b>	PM Exam:	<b>Electrical &amp; Computer-Power</b>		
	*Institution	National	Comparator Groupings		

Examinees Taking	6	780	388	135	192		
Examinees Passing	4	401	228	67	77		
Examinees Passing %	67	51	59	50	40		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
Basic ELE - Professionalism and Engineering Econor	2	17	57	0.7	59	56	56
Basic ELE - Safety & Reliability	3	84	69	0.9	73	73	62
Basic ELE - Electric Circuits	10	72	56	2.0	58	54	53
Basic ELE - Electric & Magnetic Field Theory & Appli	1	50	50	0.5	55	47	47
Basic ELE - Computer Systems & Engr	2	75	81	0.6	84	79	78
Electronics, Circuits & Components - Components	6	33	52	1.4	55	52	48
Electronics, Circuits & Components - Materials	2	25	40	0.7	43	37	36
Controls & Communications Systems	6	47	55	1.4	57	53	52
Power - Transmission & Distribution	5	47	52	1.3	55	53	46
Power - Rotating Machines & Elecromagnetic Device	3	44	55	1.0	58	54	51
General Power - Measure, Instrument & Statistics	2	67	57	0.5	60	58	54
General Power - Special Applications	1	67	34	0.5	37	35	32
General Power - Codes, Standards & Special Appls	3	94	67	0.9	69	70	63
Circuit Analysis - Analysis	6	56	47	1.4	49	44	43
Circuit Analysis - Devices and Power Electronic Circu	3	56	50	0.8	52	51	48
Circuit Analysis - Electric and Magnetic Fields and A	2	83	79	0.6	81	80	77
Rotating Machines	7	64	63	1.3	65	62	61
Electromagnetic Devices	4	58	54	1.0	57	52	52
Transmission & Distrib - Systems Analysis	6	47	49	1.3	51	54	45
Transmission & Distrib - Power System Performance	2	67	52	0.7	55	50	48
Transmission & Distrib - Protection	4	46	41	1.0	43	41	39

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\*\*\* Carnegie 1 - Research Extensive, Carnegie 2 - Research Intensive, Carnegie 3 - Masters I and II combined

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National Council of Examiners for Engineering and Surveying  
Principles and Practice of Engineering Examination  
ABET - Accredited Programs

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2/15/2008

Graduate of	<b>Engineering</b>					
Subject Matter Report by Major and PM Examination						
Board:	Kentucky	Institution:	Kentucky_ University of			
Board Code:	71	School Code:	7101			
Major:	<b>Materials</b>	PM Exam:	<b>Mechanical-Machine Design</b>			
	*Institution	National			Comparator Groupings	

	1	2	2	0	0		
Examinees Taking	1	2	2	0	0		
Examinees Passing	1	2	2	0	0		
Examinees Passing %	100	100	100	0	0		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
General - Codes & Standards - Engineering Principle 6	67	67	0.0	67	0	0	
General - Codes & Standards - Fundamental Enginee 5	100	100	0.0	100	0	0	
General - Codes & Standards - Interpretation of Code 1	100	100	0.0	100	0	0	
Machine Design & Materials - Principles	4	50	38	0.7	38	0	0
Machine Design & Materials - Applications	3	67	50	0.7	50	0	0
Hydraulics & Fluids - Principles	4	100	88	0.7	88	0	0
Hydraulics & Fluids - Applications	3	67	67	0.0	67	0	0
Energy Conversion/Power Systems - Principles	5	80	70	0.7	70	0	0
Energy Conversion/Power Systems - Analysis of Sys 2	50	50	0.0	50	0	0	
HVAC & Refrigeration - Principles	7	71	64	0.7	64	0	0
Engineering Principles	18	72	58	3.5	58	0	0
Machine Design - Components	14	43	43	0.0	43	0	0
Applications - Systems	3	33	66	1.4	66	0	0
Applications - Supportive Knowledge	5	80	40	2.8	40	0	0

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\*\*\* Carnegie 1 - Research Extensive, Carnegie 2 - Research Intensive, Carnegie 3 - Masters I and II combined

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200710  
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Graduate of	<b>Engineering</b>						
Subject Matter Report by Major and PM Examination							
Board:	Kentucky	Institution:	Kentucky_ University of				
Board Code:	71	School Code:	7101				
Major:	<b>Mechanical</b>	PM Exam:	<b>Fire Protection</b>				
	*Institution	National			Comparator Groupings		

Examinees Taking	1	65	36	16	10		
Examinees Passing	0	28	11	11	5		
Examinees Passing %	0	43	31	69	50		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
FP Analysis - Type of Analysis	10	50	59	1.8	56	68	54
FP Analysis - Information Sources for Analysis	6	50	63	1.5	61	75	60
FP Management	8	38	68	1.7	65	78	68
Fire Science & Human Behavior - Fire Dynamics	8	38	57	1.7	52	66	65
Fire Science & Human Behavior - Human Response	4	50	51	1.0	46	53	60
FP System - Water-Based Fire Suppression Systems	10	30	56	2.3	51	68	59
FP System - Special Hazard Systems	4	50	47	1.2	43	52	52
FP System - Fire Detection and Alarm Systems	7	86	59	1.7	61	65	44
FP System - Smoke Management Systems	4	75	60	1.2	60	62	58
FP System - Explosion Protection and Prevention Sy:	3	33	35	0.9	33	42	30
Passive Building Systems - Building Construction	10	60	63	1.9	61	66	64
Passive Building Systems - Means of Egress	6	33	57	1.4	56	64	52

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200710  
2/15/2008

Graduate of	<b>Engineering</b>					
Subject Matter Report by Major and PM Examination						
Board:	Kentucky	Institution:	Kentucky_ University of			
Board Code:	71	School Code:	7101			
Major:	<b>Mechanical</b>	PM Exam:	<b>Mechanical-Machine Design</b>			
	*Institution	National	Comparator Groupings			

Examinees Taking	2	346	204	57	55		
Examinees Passing	2	187	121	31	21		
Examinees Passing %	100	54	59	54	38		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
General - Codes & Standards - Engineering Principle 6	58	65	1.4	67	66	58	
General - Codes & Standards - Fundamental Enginee 5	80	65	1.2	67	67	59	
General - Codes & Standards - Interpretation of Code 1	50	70	0.5	70	79	62	
Machine Design & Materials - Principles	4	62	57	1.1	57	58	55
Machine Design & Materials - Applications	3	66	59	0.9	61	53	55
Hydraulics & Fluids - Principles	4	75	72	1.0	74	68	67
Hydraulics & Fluids - Applications	3	66	56	1.0	58	49	54
Energy Conversion/Power Systems - Principles	5	40	45	1.2	45	43	46
Energy Conversion/Power Systems - Analysis of Sys 2	25	41	41	0.7	41	44	34
HVAC & Refrigeration - Principles	7	36	44	1.5	46	43	39
Engineering Principles	18	58	52	3.5	55	50	44
Machine Design - Components	14	78	53	2.7	55	52	45
Applications - Systems	3	67	56	0.9	58	49	52
Applications - Supportive Knowledge	5	40	51	1.2	54	53	42

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200710  
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Graduate of	<b>Engineering</b>				
Subject Matter Report by Major and PM Examination					
Board:	Kentucky	Institution:	Kentucky_ University of		
Board Code:	71	School Code:	7101		
Major:	<b>Mechanical</b>	PM Exam:	<b>Mechanical-Thermal &amp; Fluids</b>		
	*Institution	National	Comparator Groupings		

Examinees Taking	3	379	218	47	85		
Examinees Passing	1	191	131	19	23		
Examinees Passing %	33	50	60	40	27		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
General - Codes & Standards - Engineering Principle 6	72	69	1.4	73	61	64	
General - Codes & Standards - Fundamental Enginee 5	33	65	1.2	69	58	59	
General - Codes & Standards - Interpretation of Code 1	67	54	0.5	57	52	49	
Machine Design & Materials - Principles	4	33	43	1.0	44	43	42
Machine Design & Materials - Applications	3	56	46	0.8	48	41	43
Hydraulics & Fluids - Principles	4	42	72	1.0	74	70	69
Hydraulics & Fluids - Applications	3	45	54	0.9	55	49	52
Energy Conversion/Power Systems - Principles	5	27	53	1.4	56	46	49
Energy Conversion/Power Systems - Analysis of Sys 2	50	44	0.7	48	40	34	
HVAC & Refrigeration - Principles	7	33	47	1.6	50	43	41
Fundamentals - Engineering Principles	9	52	60	1.8	64	57	54
Fundamentals - Supportive Knowledges	4	50	55	1.2	59	49	46
Components - Hydraulic System Components	6	50	56	1.5	59	49	50
Components - Power Plant Components	8	54	53	1.8	55	50	45
Applications - System Applications	10	50	52	2.2	55	47	46
Applications - Supportive Knowledges	3	67	56	1.0	63	50	41

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\*\*\* Carnegie 1 - Research Extensive, Carnegie 2 - Research Intensive, Carnegie 3 - Masters I and II combined

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200710  
2/15/2008

Graduate of	<b>Engineering</b>						
Subject Matter Report by Major and PM Examination							
Board:	Kentucky	Institution:	Kentucky_ University of				
Board Code:	71	School Code:	7101				
Major:	<b>Mining/Mineral</b>	PM Exam:	<b>Civil-Geotechnical</b>				
	*Institution	National			Comparator Groupings		

Examinees Taking	1	7	3	3	0		
Examinees Passing	1	6	2	3	0		
Examinees Passing %	100	86	67	100	0		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
Breadth - Environmental	8	75	68	1.9	67	62	0
Breadth - Geotechnical	8	75	88	1.0	83	96	0
Breadth - Structural	8	100	78	1.4	92	71	0
Breadth - Transportation	8	75	59	0.8	66	50	0
Breadth - Water Resources	8	62	64	1.5	50	71	0
Subsurface Exploration & Sampling	4	50	68	1.0	50	92	0
Engineering Properties & Soil Mechanics	10	50	39	0.9	43	33	0
Foundations	6	17	45	1.1	39	56	0
Earth Retaining Structures & Seismic Engineering	6	33	36	1.1	22	39	0
Environmental	4	50	39	0.8	42	42	0
Structural	8	88	66	1.3	71	54	0
Transportation	2	50	57	0.7	67	67	0

\* 0 examinees have been removed from this data because they (1) Answered fewer than 10% of the questions or (2) were flagged as a Random Guesser.

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\*\*\* Carnegie 1 - Research Extensive, Carnegie 2 - Research Intensive, Carnegie 3 - Masters I and II combined

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200710  
2/15/2008

Graduate of	<b>Engineering</b>						
Subject Matter Report by Major and PM Examination							
Board:	Kentucky	Institution:	Kentucky_ University of				
Board Code:	71	School Code:	7101				
Major:	<b>Mining/Mineral</b>	PM Exam:	<b>Civil-Transportation</b>				
	*Institution	National			Comparator Groupings		

Examinees Taking	1	4	4	0	0	0	
Examinees Passing	1	3	3	0	0	0	
Examinees Passing %	100	75	75	0	0	0	
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
Breadth - Environmental	8	75	72	0.5	72	0	0
Breadth - Geotechnical	8	88	53	2.1	53	0	0
Breadth - Structural	8	88	72	2.2	72	0	0
Breadth - Transportation	8	75	81	1.3	81	0	0
Breadth - Water Resources	8	88	85	0.5	85	0	0
Traffic Analysis	9	100	84	1.7	84	0	0
Transportation Planning/Construction	8	88	85	0.5	85	0	0
Geometric Design/Traffic Safety	9	67	81	2.1	81	0	0
Geotechnical	6	50	67	0.8	67	0	0
Water Resources	8	38	53	1.3	53	0	0

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\*\* The standard deviation above is based on number of questions correct not percentage of questions correct.

\*\*\* Carnegie 1 - Research Extensive, Carnegie 2 - Research Intensive, Carnegie 3 - Masters I and II combined

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National Council of Examiners for Engineering and Surveying  
Principles and Practice of Engineering Examination  
ABET - Accredited Programs

200710  
2/15/2008

Graduate of	<b>Engineering</b>						
Subject Matter Report by Major and PM Examination							
Board:	Kentucky	Institution:	Kentucky_ University of				
Board Code:	71	School Code:	7101				
Major:	<b>Mining/Mineral</b>	PM Exam:	<b>Civil-Water Resources</b>				
	*Institution	National			Comparator Groupings		

Examinees Taking	1	5	5	0	0	0	
Examinees Passing	0	2	2	0	0	0	
Examinees Passing %	0	40	40	0	0	0	
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
Breadth - Environmental	8	62	55	1.7	55	0	0
Breadth - Geotechnical	8	62	47	1.1	47	0	0
Breadth - Structural	8	75	85	0.8	85	0	0
Breadth - Transportation	8	62	60	1.1	60	0	0
Breadth - Water Resources	8	62	70	1.8	70	0	0
Hydraulics	15	20	44	3.6	44	0	0
Hydrology	5	0	52	1.5	52	0	0
Water Treatment	6	50	70	1.3	70	0	0
Environmental	10	40	42	2.0	42	0	0
Geotechnical	4	50	50	0.7	50	0	0

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\*\*\* Carnegie 1 - Research Extensive, Carnegie 2 - Research Intensive, Carnegie 3 - Masters I and II combined

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Principles and Practice of Engineering Examination  
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200710  
2/15/2008

Graduate of	<b>Engineering</b>				
Subject Matter Report by Major and PM Examination					
Board:	Kentucky	Institution:	Kentucky_ University of		
Board Code:	71	School Code:	7101		
Major:	<b>Mining/Mineral</b>	PM Exam:	<b>Mining &amp; Mineral</b>		
	*Institution	National		Comparator Groupings	

Examinees Taking	2	29		11	7	0	
Examinees Passing	1	20		5	5	0	
Examinees Passing %	50	69		45	71	0	
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
Exploration: Methods & techniques	2	50	50	0.8	45	43	0
Exploration: Deposits modeling	1	0	76	0.4	64	86	0
Exploration: Geo conditions characterize site	2	0	60	0.7	55	64	0
Exploration: E&E resources/reserves	3	66	52	1.0	48	48	0
Mine Plan/Oper: Methods & layouts	9	78	79	1.5	71	81	0
Mine Plan/Oper: Equip, Fac, Systems	12	71	72	1.7	69	74	0
Mine Plan/Oper: E&D ground Control	9	72	74	1.3	74	73	0
Mine Plan/Oper: O&M mines & systems	6	58	67	1.3	56	69	0
Mineral Proc: Lab & Pilot T&A	4	62	69	0.8	66	61	0
Mineral Proc: D&E process flowsheets	9	56	54	2.0	41	56	0
Mineral Proc: P&D equip, fac & systems	8	82	76	1.3	72	70	0
Mineral Proc: O&M plants & facilities	3	50	51	0.8	52	33	0
Env & Reclaim: S, M & PE characterization	3	84	76	0.8	76	67	0
Env & Reclaim: M&P impact design	4	62	66	0.9	61	50	0
Env & Reclaim: O&M Env Plan	2	50	64	0.5	55	64	0
Env & Reclaim: Close & Reclaim site	3	50	77	0.6	70	76	0

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2/15/2008

Graduate of	<b>Engineering</b>						
Subject Matter Report by Major and PM Examination							
Board:	Kentucky	Institution:	Kentucky_ University of				
Board Code:	71	School Code:	7101				
Major:	<b>Structural</b>	PM Exam:	<b>Structural I</b>				
	*Institution	National			Comparator Groupings		

	1	147	109	20	12		
Examinees Taking	1	147	109	20	12		
Examinees Passing	0	53	42	8	1		
Examinees Passing %	0	36	39	40	8		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
Analysis of Structures-Loads	6	50	63	1.2	64	62	58
Analysis of Structures-Lateral Forces	6	50	59	1.1	59	62	57
Analysis of Structures-Lateral Force Distribution	9	67	55	1.8	55	53	58
Analysis of Structures-Methods	4	50	72	0.8	73	70	65
Design and Details of Structures-General Structural C 6	6	50	67	1.2	67	71	57
Design and Details of Structures-Steel (AISC-AASHT 14	71	71	67	2.0	68	69	61
Design and Details of Structures-Concrete (AASHTO 13	54	54	71	2.3	71	72	67
Design and Details of Structures-Wood (NDS-ASD) 7	29	29	45	1.3	46	48	41
Design and Details of Structures-Masonry (ACI 530-L 7	29	29	53	1.4	53	55	48
Design and Details of Structures-Foundations & Reta 8	25	25	58	1.8	59	58	50

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